



Conference programme

International Exhibition for Welding and Cutting Equipment, Technologies and Materials **Rusweld 2024**

EXPOCENTRE Fairgrounds, Moscow, Russia

9 September (Monday)	
10.00–11.00 Pavilion No.8, Conference Hall LIMITED	Meeting of the Russian Welding Professional Community (RWPC) Organised by NAKS – the National Agency of Welding Control, EXPOCENTRE AO
11.00–11.30 Pavilion No.8, Hall 3, Iskra Area FREE	Opening of the final stage of the Russian Competition for Non-Destructive Testing – Defectoscopist 2024 Organised by NAKS – the National Agency of Welding Control, RSNTTD – the Russian Society for Non-Destructive Testing and Technical Diagnostics, EXPOCENTRE AO
11.00–11.30 Pavilion No.8, Hall 3, Masterclass Area	Masterclass on argon arc welding of stainless steel pipes Organised by the Russian Welders Team, EXPOCENTRE AO
11.00–13.00 Pavilion No.8, Conference Hall LIMITED	Open Meeting of the Council for Vocational Qualifications in Welding Organised by NAKS – the National Agency of Welding Control, EXPOCENTRE AO
12.00–13.00 Pavilion No.8, Hall 3, Iskra Area FREE	Relevant solutions to staff shortages in welding production Organised by the Russian Welders Team, EXPOCENTRE AO
12.30–13.00 Pavilion No.8, Hall 3, Masterclass Area FREE	Masterclass on laser welding of stainless steel Organised by the Russian Welders Team, EXPOCENTRE AO
13.00–15.00 Pavilion No.8, Hall 3, Iskra Area FREE	Scalable technology for rapid training of quality personnel for the needs of Russian enterprises based on the expertise and experience of the State Corporation Organised by Nuclear Welding School (Rosatom Corporate Academy), EXPOCENTRE AO
14.00–14.30 Pavilion No.8, Hall 3, Masterclass Area FREE	Masterclass on assembly and welding of structural steel elements using controlled drop transfer using Russian-made equipment Organised by the Russian Welders Team, EXPOCENTRE AO

<p>14.00–18.00 Pavilion No.8, Seminar Hall No.4</p> <p>FREE</p>	<p>AI algorithm in welding production</p> <ul style="list-style-type: none"> – Prospects of application of AI methods in technological processes of laser processing of metal materials – Calculations of phase composition of austenitic high-nitrogen welding wire and study of welded joint made of it – Concept of development of welding and related processes in shipbuilding – Advanced laser technology – Research of CNIITMASH on improvement of welding materials and technological processes for new generation nuclear power plant equipment – Advanced laser-arc technologies, recommendations for their application in shipbuilding – Use of cryogenic gasifiers in welding technology – Innovative technology of Russian-made ceramic flux selection for automatic welding of cold-resistant steels of advanced and high strength for structures operating in the Far North – Innovative submerged arc welding technology for the manufacture of structures of marine equipment and vessels for the development of the Arctic shelf – Laser welding and additive manufacturing. Experience of creation of small-scale knowledge-intensive production in the Institute of Mechanical Engineering, Materials and Transport at Peter the Great St. Petersburg Polytechnic University – Scientific and technical, production, and practice and research information basis for training AI neural networks for collecting, processing and analysing data of production and application of argon-arc welding torches – PYPLOK® crimped non-welded pipe couplings <p>Organised by the Alliance of Welders of St. Petersburg and the Nord-West Region, EXPOCENTRE AO</p>
<p>15.00–15.30 Pavilion No.8, Hall 3, Iskra Area</p> <p>FREE</p>	<p>The welding profession: how to attract young professionals</p> <ul style="list-style-type: none"> – Problems and current trends in the welding profession – Breaking stereotypes: using today’s media and shows in education – Promoting the profession through social media – Cooperation with large corporations and participation in competitions – Development of international cooperation – A space welding team project <p>Organised by Forge of the Future, EXPOCENTRE AO</p>
<p>15.00–18.00 Pavilion No.8, Conference Hall</p> <p>LIMITED</p>	<p>Meeting of NAKS – the National Agency of Welding Control</p> <p>Organised by NAKS – the National Agency of Welding Control, EXPOCENTRE AO</p>
<p>15.30–16.30 Pavilion No.8, Hall 3, Iskra Area</p> <p>FREE</p>	<p>Underwater welding</p> <ul style="list-style-type: none"> – Introduction to underwater welding, applications and development prospects

	<ul style="list-style-type: none"> – Technical aspects of underwater welding, training, equipment and specifics of work in various conditions <p>Organised by Forge of the Future, EXPOCENTRE AO</p>
<p>16.00–16.30 Pavilion No.8, Hall 3, Masterclass Area</p> <p>FREE</p>	<p>Masterclass on argon arc welding of special alloys</p> <p>Organised by the Russian Welders Team, EXPOCENTRE AO</p>
<p>16.30–17.30 Pavilion No.8, Hall 3, Iskra Area</p> <p>FREE</p>	<p>AI in Welding</p> <ul style="list-style-type: none"> – Advanced technologies and their application in welding – Cases of successful implementation of AI in the industry – Prospects and future of AI in the welding industry – Use of personal AI assistants in the welding industry <p>Organised by Forge of the Future, EXPOCENTRE AO</p>
10 September (Tuesday)	
<p>10.30–16.30 Pavilion No.8, Hall 3, Iskra Area</p> <p>FREE</p>	<p>Conference on Welding in Russia. Challenges and Solutions</p> <p>10.30–11.30 Session 1: Normative and legal regulation of welding and non-destructive testing. The National Qualification System in Welding and Control. Interstate and national standardisation in welding and related processes</p> <ul style="list-style-type: none"> – Normative and legal regulation of welding processes at hazardous production facilities – The National Qualification System in Welding. Challenges, trends, solutions – National and interstate standardisation in welding. A role of standards in ensuring innovation, quality and import substitution – Normative legal and technical regulation of certification in the field of non-destructive testing <p>12.00–16.30 Session 2: Welding materials and equipment for welding. Import substitution and production prospects</p> <ul style="list-style-type: none"> – A review of the state of the component base for the production of welding consumables in Russia – Trends of import substitution of welding materials and welding equipment – KEDR™ products – ARCUS Industrial Group. Production of welding materials – Production of welding equipment. NPF ETS Group – Production of welding materials by Oliver – A new plant of welding equipment of ALLOY and its products – Technological equipment for flux-cored wire drawing by WELDNOVA – Development and introduction of mechanisation and automation elements in welding production, including the issues of vocational training – Welding equipment production in Russia in the period of sanctions. Problems, solutions, prospects – Production of welding materials. NPF ETS Group – Automated laser welding for microelectronics, instrument making and general mechanical engineering

	<ul style="list-style-type: none"> – Effective solutions by CZCM for import substitution of welding materials: electrodes and solid wires in the segment of critical applications (critical structures) <p>Organised by NAKS – the National Agency of Welding Control, EXPOCENTRE AO</p>
<p>11.00–11.30 Pavilion No.8, Hall 3, Masterclass Area</p> <p>FREE</p>	<p>Masterclass on argon arc welding of stainless steel pipes</p> <p>Organised by the Russian Welders Team, EXPOCENTRE AO</p>
<p>11.00–17.00 Pavilion No.8, Hall 3, Profi Area</p> <p>FREE</p>	<p>The Russian Competition for Non-Destructive Testing – Defectoscopist 2024</p> <p>Demonstration of high qualifications, knowledge and skills of professionals of leading non-destructive testing enterprises in a healthy competitive environment</p> <p>Nominations of the final stage:</p> <ul style="list-style-type: none"> – Visual and measuring testing – Ultrasonic testing – Radiation testing – Visual and measuring testing + ultrasonic testing – Visual and measuring testing + radiation testing <p>Organised by the Russian Society for Non-Destructive Testing and Technical Diagnostics</p>
<p>12.30–13.00 Pavilion No.8, Hall 3, Masterclass Area</p> <p>FREE</p>	<p>Masterclass on laser welding of stainless steel</p> <p>Organised by the Russian Welders Team, EXPOCENTRE AO</p>
<p>14.00–14.30 Pavilion No.8, Hall 3, Masterclass Area</p> <p>FREE</p>	<p>Masterclass on assembly and welding of structural steel elements using controlled drop transfer using Russian-made equipment</p> <p>Organised by the Russian Welders Team, EXPOCENTRE AO</p>
<p>16.00–16.30 Pavilion No.8, Hall 3, Masterclass Area</p> <p>FREE</p>	<p>Masterclass on argon arc welding of special alloys</p> <p>Organised by the Russian Welders Team, EXPOCENTRE AO</p>
11 September (Wednesday)	
<p>10.30–18.00 Pavilion No.8, Conference Hall</p> <p>LIMITED</p>	<p>Consultation and information workshop on activities and development of the RSNTTD System of Welding Production Certification, the System of Non-Destructive Testing at Hazardous Production Facilities, and the National Qualification System in Welding</p> <ul style="list-style-type: none"> – Participation of RSNTTD – the Russian Society for Non-Destructive Testing and Technical Diagnostics in improving state safety regulation, supervisory, permitting and expert activities to create an organisational and regulatory framework for ensuring industrial

	<p>safety in non-destructive testing</p> <ul style="list-style-type: none"> – Prospects of automation of the process of competence assessment of non-destructive testing professionals – Carrying out certification of non-destructive testing professionals for the right to participate in certification centres commissions for non-destructive testing professionals – ‘Results of the regional stages of the RSNTTD Russian Competition for Non-Destructive Testing – Defectoscopist 2024 – Improvement and development of the normative legal regulation of the National Qualifications System – Updated professional standards for welding and testing – Updated requirements for welding and testing in documents of the national standardisation system – Results of the Russian Professional Skills Competition – the Best Welder 2024 The Professional Skills Competition – the Best Welder 2025 – Normative regulation of welding production at hazardous production facilities – Regulatory and technical support for certification centres – Application of NAKS standards in certification of welding personnel – Information and methodological support for members of certification commissions – Results and conclusions of expert examination on how industry enterprises are ready to use certified welding technologies – Relevant issues of carrying out and registration of certification procedures for welding equipment and welding materials. Consistency of approaches and evaluation of results <p>Organised by NAKS – the National Agency of Welding Control, EXPOCENTRE AO</p>
<p>11.00–11.30 Pavilion No.8, Hall 3, Masterclass Area</p> <p>FREE</p>	<p>Masterclass on argon arc welding of stainless steel pipes</p> <p>Organised by the Russian Welders Team, EXPOCENTRE AO</p>
<p>11.00–15.00 Pavilion No.8, Hall 3, Iskra Area</p> <p>FREE</p>	<p>3rd Conference on Robotics Technology in Machine Building</p> <p>11.00–12.30 Panel on comprehensive solutions for robotisation of production processes</p> <ul style="list-style-type: none"> – How to select and estimate effects? Lean robotisation approaches and methodology – Is innovation required or is it enough to incentivise the replication of existing customer solutions? – What role does import substitution play in the demand for robotisation technologies? – Which segments of technological industrial equipment are critically dependent on foreign manufacturers? – How to strengthen customers' competences for working with robotised systems <p>13.00–15.00 Case session on standard and innovative robotisation systems. Technology of equipment monitoring</p> <p>Organised by the Russian Association of Robotics, EXPOCENTRE AO</p>

12.30–13.00 Pavilion No.8, Hall 3, Masterclass Area FREE	Masterclass on laser welding of stainless steel Organised by the Russian Welders Team, EXPOCENTRE AO
14.00–14.30 Pavilion No.8, Hall 3, Masterclass Area FREE	Masterclass on assembly and welding of structural steel elements using controlled drop transfer using Russian-made equipment Organised by the Russian Welders Team, EXPOCENTRE AO
15.30–17.00 Pavilion No.8, Hall 3, Iskra Area FREE	Award ceremony for the finalists of the RSNTTD Russian Competition for Non-Destructive Testing – Defectoscopist 2024 Organised by RSNTTD – the Russian Society for Non-Destructive Testing and Technical Diagnostics, EXPOCENTRE AO
16.00–16.30 Pavilion No.8, Hall 3, Masterclass Area FREE	Masterclass on argon arc welding of special alloys Organised by the Russian Welders Team, EXPOCENTRE AO
12 September (Thursday)	
11.00–11.30 Pavilion No.8, Hall 3, Masterclass Area FREE	Masterclass on argon arc welding of special alloys Organised by the Russian Welders Team, EXPOCENTRE AO

Subject to alteration

FREE Open event/preliminary registration

LIMITED Attendance by arrangement with the organiser